

United States Air Force, Air Combat Command, 1st Support Group
Langley Air Force Base (LAFB), Virginia (1st SPTG)

PERMIT FOR LAND USE

National Aeronautics and Space Administration (NASA) Langley Research Center (LaRC), is hereby granted a permit to install the following:

1. a 15 KV underground electrical feeder line and concrete duct bank on LAFB property adjacent to LAFB Buildings 1310 and 1312 (LAFB Liaison Office).
2. A new electrical utility manhole.

The area so permitted is shown on the enclosed Exhibit A, made a permanent part of this permit. This permit is for a term of five (5) years beginning February 1, 2003, and ending January 30, 2008, unless terminated sooner by LAFB.

This permit is granted subject to the following conditions:

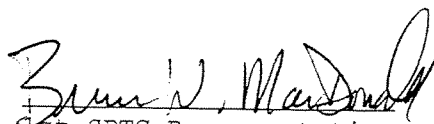
1. The occupation, use, improvements to, and maintenance of the subject parcel by LaRC shall be without cost to LAFB.
2. LaRC shall, at its own expense, maintain and keep its improvements upon the permitted land in good repair.
3. This permit may be revoked without cost to LAFB if there has been:
 - a. A failure by the permittee to comply with any conditions of this permit;
 - b. A determination by the LAFB Commander that the interests of the national defense, or the public welfare required the revocation of the interest granted, and a 120-day notice is given, in writing, to the permittee that such a determination has been made; or
 - c. The revocation of this permit in accordance with Paragraph (a) or (b) above shall be effective as of the date specified in the written notice of revocation given to permittee.
4. Prior to any excavation of six (6) inches depth or more, a LAFB digging permit shall be obtained in accordance with 1 CES Operating Instruction 32-103 dated 1 May 2000.

All applicable terms and conditions applied to the Air Force permit shall also apply to the NASA permit.

In the event LAFB decides that improvements are required on its permitted land (either subsurface or surface), that decision shall constitute a change requiring revision of this document. Such revision shall be executed and signed by both parties prior to any site work by LaRC on the permitted land.

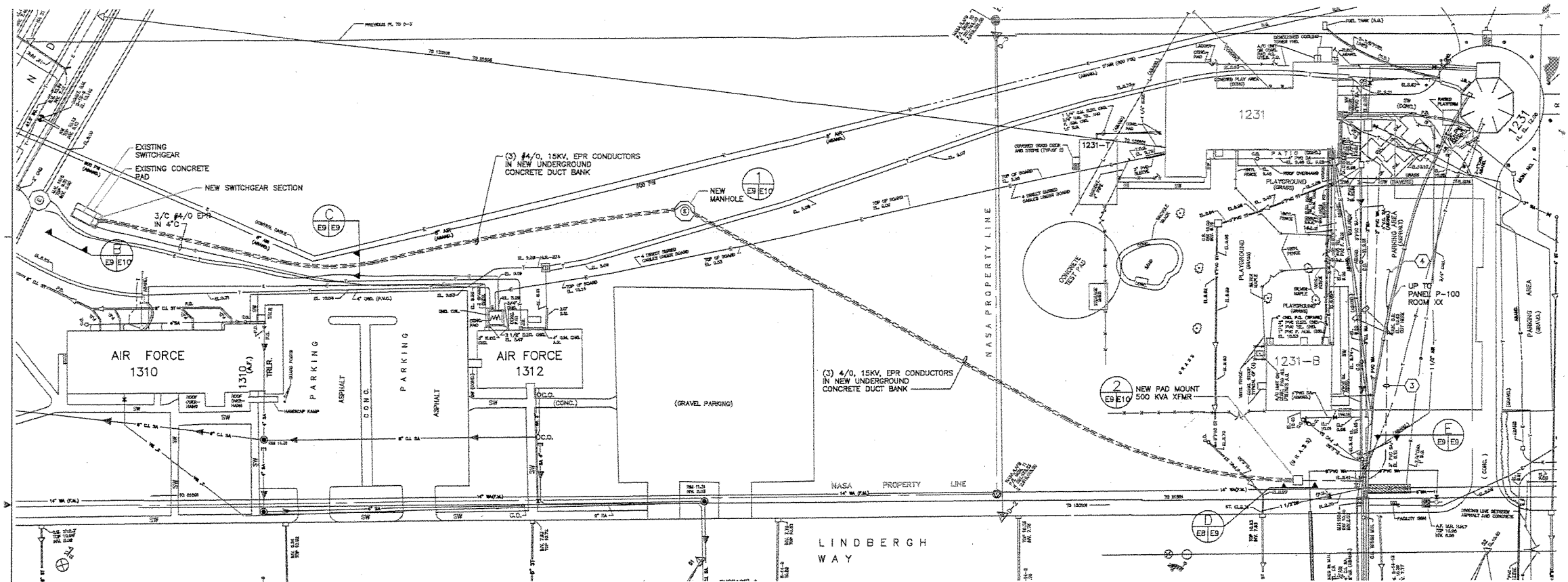

NASA Representative

7/17/02
Date


1st SPTG Representative

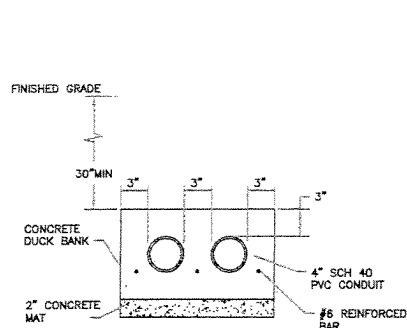
18 Jul 02
Date

Enclosure



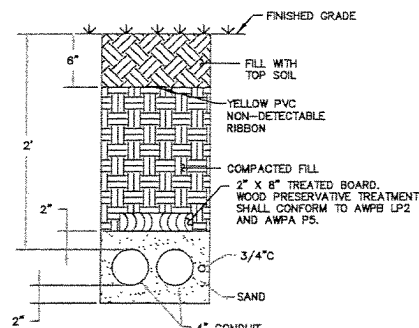
UNDERGROUND ELECTRICAL ROUTING PLAN

SCALE: 1"=30'-0"



TYPICAL DUCT BANK DETAIL

SCALE: 1 1/2"=1'-0"
(REFERENCE DRAWING 554678)



TYPICAL TRENCH DETAIL

SCALE: 1 1/2"=1'-0"

UNDERGROUND UTILITIES LEGEND

— X —	FENCING	A/C	ALTERNATE CURRENT
— S —	STEAM LINE	ABAND	ABANDONED
— ST —	STORM	AG	ABOVE GROUND
— SA —	SANITARY	B.G.	BELOW GROUND
— E —	ELECTRICAL DUCT BANK	CND	CONDUIT
— WA —	WATER LINE	CONC	CONCRETE
— T —	TELEPHONE	EL	ELEVATION
— D —	DATA CABLE	JB	JUNCTION BOX
— E —	ELECTRICAL	M.H.	MAN HOLE
— — — —	NEW UNDERGROUND CONDUIT IN CONCRETE DUCT BANK	PO	POSITION DOUBTFUL
— — — —	UNDERGROUND CONDUIT IN TRENCH	PED	PEDESTAL
		PVC	POLYVINYL CHLORIDE CONDUIT
		SW	SWITCH
		TEL	TELEPHONE
		UNK	UNKNOWN
		XFMR	TRANSFORMER

NEW WORK NOTES

- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL LOCATE, BY HAND EXCAVATIONS, ALL EXISTING UNDERGROUND ELECTRICAL AND UTILITY LINES IN THE AREA OF PROPOSED CONSTRUCTION. CONTRACTOR SHALL COORDINATE WORK IN THE VICINITY OF THESE LINES WITH THE CONTRACTING OFFICER AND SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THESE LINES. ALL OF THE EXISTING UNDERGROUND LINES MAY NOT BE SHOWN ON THE DRAWINGS, AND THE LOCATIONS AND SIZES OF THOSE THAT ARE SHOWN ARE APPROXIMATE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBSERVING AND MAINTAINING CLEARANCE BETWEEN NEW WORK AND EXISTING UNDERGROUND CABLES AND UTILITIES. NEW WORK SHALL NOT COME IN CONTACT WITH ANY EXISTING UNDERGROUND UTILITIES OR CABLES.
- PROVIDE 8-500 KCMIL AND 2 #1/0 GND IN 2 4" CONDUIT.
- 4/C #22 AWG TWISTED-SHEILED PAIR CABLE, BELDEN 8723, OR EQUAL IN 3/4" CONDUIT.

REVISIONS					REVISIONS				
DATE	LTR	PREP	DESCRIPTION	BY	CHECK	APPRO	DATE	LTR	PREP

Sverdrup

TECHNOLOGY INC.

TECHNOLOGY GROUP

WORK ORDER NO. CD04200A03/1147

APPROVALS DATE

DRAWN: DESIGNED: CHECKED: PREP. ENG. SUPERV.:

APPROVALS

NAME ORGANIZATION DATE

DRAWN: DESIGNED: CHECKED: APPROVED: TSDA. PROJ. ENG. RES. PROJ. ENG.

PREL. ENG. SUPERV.:

TOLERANCE ON DIMENSIONS UNLESS SHOWN OTHERWISE

UNLESS SHOWN OTHERWISE

UNLESS SHOWN OTHERWISE

FOR DRAWING INDEX SEE DRAWING 00000X

NATIONAL AERONAUTICS & SPACE ADMINISTRATION
LANGLEY RESEARCH CENTER
HAMPTON, VIRGINIA 23061-2199

PROJECT TITLE ADDITIONS AND MODS TO CHILD DEVELOPMENT CENTER

DRAWING TITLE CABLE ROUTING PLAN AND DETAILS

DRAWING NO. 1147-E09

SHEET NO. E09

DATE 11/14/03